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McGUINNESS & MANARAS LLP 125 NAGOG PARK ACTON, MA 01720			EXAMINER PATEL, ASHOKKUMAR B	
			ART UNIT 2154	PAPER NUMBER

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
3 MONTHS	01/23/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary

Application No.

09/930,375

Applicant(s)

MONGA ET AL.

Examiner

Ashok B. Patel

Art Unit

2154

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 06 November 2006.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-38 is/are pending in the application.
- 4a) Of the above claim(s) 13 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-12 and 14-38 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date <u>08/26/2006</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. Claims 1-38 are subject to examination. Claim 13 has been cancelled.

Response to Arguments

2. Applicant's arguments filed 11/06/2006 have been fully considered but they are not persuasive for the following reasons:

Rejections under 35 U.S.C. § 102

Applicant's argument:

1. Weldon does not show or describe optical switched router as now claimed
 - a. "Weldon is silent to what form of technology is used for the LAN."
 - b. "Rather, even if Weldon may include an optical interface to allow it to interface with an optical network, there is no mention of performing optical switching at this node as recited in the claims of the present invention."

Examiner's response:

- a. Weldon at col. 2, line 4-22, "VPNs, and in particular Internet VPNs, often choose to employ tunneling technology as a way to securely transfer data between two similar networks (e.g., private LANs) over an intermediate network such as UUNET net IP network. Tunneling (sometimes referred to as "encapsulation") encloses a first data packet in a new packet by appending a new header (transmitted in an unencrypted format) to the first data packet, so the network routes the new packet based on the information contained in the new header. The first data packet is usually encrypted when contained in the new data packet so no information can be gleaned from it, except by the intended recipient. The encapsulated packets travel through the network until

Art Unit: 2154

they reach the destination identified in the new header. At the destination, the new header is stripped away and the first data packet is decrypted and processed. The tunneling and encryption may employ DES and 3DES standards-based technology for transferring data between network locations more securely via an OC-48 TCP/IP infrastructure, for example."

Thus, "tunneling technology " is used for LAN to securely transfer the data over an intermediate network such as UUNET net IP network which is "an OC-48 TCP/IP infrastructure." Also evidently, Weldon substantiates tunneling at col. 5, line 55-col. 6, line 11 and col. 6, line 54-67.

b. Now Examiner would like to address "optical switching" as follows, however, before presenting the teachings of Weldon, Examiner would like to point out the teachings of FREDETTE et al. (hereinafter FREDETTE)(US 2002/0110119 A1) in order to develop an understanding of "Multiprotocol Label Switching".

This is what FREDETTE has to say about "Multiprotocol Label Switching" at para. [0005], "One such method is referred to as multiprotocol label switching (MPLS). MPLS integrates network layer (often referred to as layer 3) routing with a label swapping forwarding paradigm used by the link level (often referred to as layer 2) in a network. MPLS may use asynchronous transfer mode (ATM) switching hardware to route higher level (e.g., Internet Protocol or "IP", protocols rather than the more traditional ATM addressing and switching mechanisms. A data packet being transferred through the network is assigned a "label" based on its entry and exit points to and from the network. When a switch within the network receives the data packet, it removes the

Art Unit: 2154

current label uses the current label as an index into a table that identifies both the next switch or router and a new label. This new label is then forwarded to the next switch or router along with the data packet, which repeats the label replacement or swapping steps, or transfers the data packet out of the network as appropriate."

This learning of "MPLS" from FREDETTE is of paramount importance because it teaches "a switch coupling a plurality of incoming interface to a plurality of outgoing interfaces using switching logic controlled by the logic for managing connections" by employing multiprotocol label switching (MPLS).

Examiner has pointed out the following teachings of Weldon in the previous Office action:

Weldon teaches at col. 5, line 5-12, "FIG. 2 is a block diagram of a VPN and supporting components according to the present invention. Data from a terminal (i.e., data source) node at a source LAN 210 is sent by way of a source VPN probing router 207 through a network 217, which may be the Internet or another shared network, to a destination VPN probing router 203 (sometimes referred to as "PR") and finally to a destination LAN 208." Thus element 207 of Fig. 2 is a router.

Further, Weldon teaches at col. 5, line 12-19 in conjunction of element 217 of Fig. 2, "The network 217 is a shared resource such as the Internet. However other types of networks may be used that employ TCP/IP, or a related packet switched protocol such as IP version 4 or IP version 6. The physical medium in the network 217 may be made of any combination of terrestrial ground lines, optical lines, or wireless links that will form the in-band channel 204 or other channel paths 206 for example."

Thus, since the element 207, which is a router, is interfacing to optical lines, it is an optical router.

Furthermore, Weldon teaches at col. 5, line 19-34, "Various nodes are hosted in the network 217 that may be configured to become part of the VPN, as will be discussed. These nodes are served by routers 205 and 209 for example. For convenience, lines 204 are shown with a darker line indicating that this is the path through which the source LAN 210 and destination LAN 208 communicate with one another in a first scenario. Dynamic routing tables in the routers 209 and 205 dictate the path to be followed by the message traffic (whether encapsulated or not), where the chosen path is affected by the source/destination pair included in the message traffic header."

Thus, since the element 207, which is a router, is interfacing to optical lines through any subsequent router (chosen path is affected by the source/destination pair, it is an optical switched router.

Now, that we have developed the understanding of MPLS that is taught by FREDETTE, Examiner would like to point out the Weldon's teachings, which was however was not necessitated before the current amendments to the claims as presented, at col. 9, line 21-26, "While encryption may be employed to improve information privacy, encryption need not be employed and thus is an optional feature, selected by a customer when subscribing to the VPN service. The source VPN probing router 207 may also employ multi-protocol label switching that prioritizes packets through the core communication network 217."

Thus Weldon teaches "encryption for tunneling through OC-48 infrastructure" that is "optical" as stated in "a.", and an optical switched router including an optical switch coupling a plurality of incoming optical interface to a plurality of outgoing optical interfaces using optical switching logic controlled by the logic for managing connections." by employing "multi-protocol label switching that prioritizes packets through the core communication network 217.", as stated in "b.". Keep in mind that "prioritizing packets" is related to SLA.

2. Weldon neither describes nor suggests optical service logic such as that claimed

Applicant's argument:

"Accordingly, for at least the reason that Weldon neither describes nor suggests the limitations of the claims regarding optical service logic capability, it is requested that the rejection of independent claims 1, 12, 24 and 35 under 35 U.S.C. § 102 be withdrawn."

Examiner's response:

Please refer to the following teachings in conjunction with the explanation provided above.

Weldon provides "the optical switched router (please see above for the optical switched router), coupled to the UNI (Fig. 2, element 207 is interfacing with the optical lines which is as claimed "a user-to-network interface (UNI) for interfacing the user at the optical switched router with the optical communication network"; and the peer-to-peer interface" (Fig. 2, element 207 is interfacing with the routers 205, 209 and 203 (users).

Art Unit: 2154

Weldon provides "optical service logic at the optical switched router" (Fig. 4, element 407, col. 5, line 34-37, "As a consequence, the SLA statistics will be determined from in-band channel measurements since the probe message traverses the same path as the data packets.", and in col. 5, line 45-55, "In addition, the router includes program memory that holds therein instructions that are executed by a processor to form a probe mechanism that, at programmable time intervals, generates a packet data unit (a probe message) for transmitting through the in-band channel 204 to the destination router 203. The probe message includes a time stamp that indicates the time at which the source VPN probing router 207 actually sends the message over the in-band channel 204 to the destination VPN router 203. Alternatively, the time stamp is stored and retained by the VPN probing router 207."

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless-

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 1-12 and 14-38 are rejected under 35 U.S.C. 102(e) as being anticipated by Weldon et al. (hereinafter Weldon) (US 6, 366, 563 B1)

Referring to claim 1,

Weldon teaches an optical service agent operating at an optical switched router for

Art Unit: 2154

managing a service level agreement (SLA) for a user in an optical communication network, the optical service agent (Fig. 2, element 207) comprising:

a user-to-network interface (UNI) for interfacing the user at the optical switched router with the optical communication network; (Fig. 4, element 415)

authentication logic for controlling access by the user to the UNI; (col. 9, line 21-26)

a peer-to-peer interface for interfacing with peer users; (col. 5, line 56-col. 6, line 11) and

optical service logic, coupled to the UNI and the peer-to-peer interface, for managing the optical communication network in accordance with said SLA for the user, wherein the optical switched router includes an optical switch coupling a plurality of incoming optical interface to a plurality of outgoing optical interfaces using optical switching logic controlled by the logic for managing connections. (col. 2, line 4-22, "VPNs, and in particular Internet VPNs, often choose to employ tunneling technology as a way to securely transfer data between two similar networks (e.g., private LANs) over an intermediate network such as UUNET net IP network. Tunneling (sometimes referred to as "encapsulation") encloses a first data packet in a new packet by appending a new header (transmitted in an unencrypted format) to the first data packet, so the network routes the new packet based on the information contained in the new header. The first data packet is usually encrypted when contained in the new data packet so no information can be gleaned from it, except by the intended recipient. The encapsulated packets travel through the network until they reach the destination

Art Unit: 2154

identified in the new header. At the destination, the new header is stripped away and the first data packet is decrypted and processed. The tunneling and encryption may employ DES and 3DES standards-based technology for transferring data between network locations more securely via an OC-48 TCP/IP infrastructure, for example."

Thus, "tunneling technology " is used for LAN to securely transfer the data over an intermediate network such as UUNET net IP network which is "an OC-48 TCP/IP infrastructure." Also evidently, Weldon substantiates tunneling at col. 5, line 55-col. 6, line 11 and col. 6, line 54-67.

col. 6, line 29-53, col. 5, line 5-37, col. 9, line 21-26, "While encryption may be employed to improve information privacy, encryption need not be employed and thus is an optional feature, selected by a customer when subscribing to the VPN service. The source VPN probing router 207 may also employ multi-protocol label switching that prioritizes packets through the core communication network 217." Thus Weldon teaches "encryption for tunneling through OC-48 infrastructure" that is "optical" as stated in "a.", and an optical switched router including an optical switch coupling a plurality of incoming optical interface to a plurality of outgoing optical interfaces using optical switching logic controlled by the logic for managing connections." by employing "multi-protocol label switching that prioritizes packets through the core communication network 217.", as stated in "b.". Keep in mind that "prioritizing packets" is related to SLA.)

Referring to claim 2,

Weldon teaches the optical service agent of claim 1, wherein the optical communication network comprises an automatically switched optical/transport network (ASON). and

Art Unit: 2154

wherein the UNI comprises an ASON UNI. (col. 9, line 7-12," The probing operations are performed on the network 217 at layer 3 i.e., Er layer). Thus, the operation is performed independent of the physical and data link layers and thus may be used in any one of a variety of different network configurations such as frame relay, ATM, FDDI, packet-over SONET, Ethernet, fiber channel as well as others.")

Referring to claim 3,

Weldon teaches the optical service agent of claim 1, wherein the optical service logic is operably coupled to monitor and analyze a connection in real-time for determining SLA compliance. (col. 4, line 16-34)

Referring to claim 4,

Weldon teaches the optical service agent of claim 1, wherein the optical service logic is operably coupled to gather and maintain statistical information relating to a connection. (col. 21-42)

Referring to claim 5,

Weldon teaches the optical service agent of claim 4, wherein the optical service logic is operably coupled to analyze the statistical information off-line for determining SLA compliance, patterns, and trends. (col. 11, line 21-42)

Referring to claim 6,

Weldon teaches the service agent of claim 1 wherein the optical service logic is operably coupled to interact with a service provider to enforce penalty provision in the SLA. (col. 11, line 21-42)

Referring to claim 7,

Art Unit: 2154

Weldon teaches the optical service agent of claim 1, wherein the optical service logic is operably coupled to interact with a service provider to negotiate a credit for services not provided by the service provider in accordance with the SLA. (col. 11, line 21-42)

Referring to claim 8,

Weldon teaches the optical service agent of claim 1, wherein the optical service logic is operably coupled to interact with a service provider to negotiate "replacement" service for a breach of the SLA. (col. 11, line 21-42)

Referring to claim 9 , 10 and 11,

Weldon teaches the optical service agent of claim 1, wherein the optical service logic is operably coupled to interact with various network elements to rectify a breach of the SLA, and wherein the optical service logic is operably coupled to interact with to interact with the service provider to dynamically modify the SLA based upon changing user requirements, and . wherein the optical service logic is operably coupled to interface with a billing/accounting system to provide SLA-related information. (col. 11, line 21-42)

Referring to claim 12,

Claim 12 is a claim to an optical router that incorporates the functionality of the optical service agent of claim 1. Therefore, claim 12 is rejected for the reasons set forth for claim 1.

Referring to claim 14,

Art Unit: 2154

Claim 14 is a claim to an optical router that incorporates the functionality of the optical service agent of claim 2. Therefore, claim 14 is rejected for the reasons set forth for claim 14.

Referring to claim 15,

Claim 15 is a claim to an optical router that incorporates the functionality of the optical service agent of claim 3. Therefore, claim 15 is rejected for the reasons set forth for claim 15.

Referring to claim 16,

Claim 16 is a claim to an optical router that incorporates the functionality of the optical service agent of claim 4. Therefore, claim 16 is rejected for the reasons set forth for claim 4.

Referring to claim 17,

Claim 17 is a claim to an optical router that incorporates the functionality of the optical service agent of claim 5. Therefore, claim 17 is rejected for the reasons set forth for claim 5.

Referring to claim 18,

Claim 18 is a claim to a device that incorporates the functionality of the optical service agent of claim 6. Therefore, claim 18 is rejected for the reasons set forth for claim 6.

Referring to claim 19,

Claim 19 is a claim to an optical router that incorporates the functionality of the optical service agent of claim 7. Therefore, claim 19 is rejected for the reasons set forth for claim 7.

Art Unit: 2154

Referring to claim 20,

Claim 20 is a claim to an optical router that incorporates the functionality of the optical service agent of claim 8. Therefore, claim 20 is rejected for the reasons set forth for claim 8.

Referring to claims 21, 22 and 23,

Claims 21, 22 and 23 are claims to an optical router that incorporates the functionality of the optical service agent of claims 9, 10 and 11. Therefore, claims 21, 22 and 23 are rejected for the reasons set forth for claims 9, 10 and 11.

Referring to claim 24,

Claim 24 is a claim to a system that incorporates the functionality of the optical service agent of claim 1. Therefore, claim 24 is rejected for the reasons set forth for claim 1.

Referring to claim 25,

Claim 25 is a claim to a system that incorporates the functionality of the optical service agent of claim 2. Therefore, claim 25 is rejected for the reasons set forth for claim 2.

Referring to claim 26,

Claim 26 is a claim to a system that incorporates the functionality of the optical service agent of claim 3. Therefore, claim 26 is rejected for the reasons set forth for claim 15.

Referring to claim 27,

Claim 27 is a claim to a system that incorporates the functionality of the optical service agent of claim 4. Therefore, claim 27 is rejected for the reasons set forth for claim 4.

Referring to claim 28,

Art Unit: 2154

Claim 28 is a claim to a system that incorporates the functionality of the optical service agent of claim 5. Therefore, claim 28 is rejected for the reasons set forth for claim 5.

Referring to claim 29,

Claim 29 is a claim to a system that incorporates the functionality of the optical service agent of claim 6. Therefore, claim 29 is rejected for the reasons set forth for claim 6.

Referring to claim 30,

Claim 30 is a claim to a system that incorporates the functionality of the optical service agent of claim 7. Therefore, claim 30 is rejected for the reasons set forth for claim 7.

Referring to claim 31,

Claim 31 is a claim to a system that incorporates the functionality of the optical service agent of claim 8. Therefore, claim 31 is rejected for the reasons set forth for claim 8.

Referring to claims 32, 33 and 34,

Claims 32, 33 and 34 are claims to a system that incorporates the functionality of the optical service agent of claims 9, 10 and 11. Therefore, claims 32, 33 and 34 are rejected for the reasons set forth for claims 9, 10 and 11.

Referring to claim 35,

Weldon teaches a method for managing service level agreements in an optical communication system at an optical switched router, wherein the optical switched router includes a plurality of incoming optical interfaces, a plurality of outgoing optical interfaces and an optical switch coupling the plurality of incoming optical interfaces to the plurality of outgoing optical interfaces, the method comprising at least one of: (col. 2, line 4-22, "VPNs, and in particular Internet VPNs, often choose to employ tunneling

Art Unit: 2154

technology as a way to securely transfer data between two similar networks (e.g., private LANs) over an intermediate network such as UUNET net IP network. Tunneling (sometimes referred to as "encapsulation") encloses a first data packet in a new packet by appending a new header (transmitted in an unencrypted format) to the first data packet, so the network routes the new packet based on the information contained in the new header. The first data packet is usually encrypted when contained in the new data packet so no information can be gleaned from it, except by the intended recipient. The encapsulated packets travel through the network until they reach the destination identified in the new header. At the destination, the new header is stripped away and the first data packet is decrypted and processed. The tunneling and encryption may employ DES and 3DES standards-based technology for transferring data between network locations more securely via an OC-48 TCP/IP infrastructure, for example."

Thus, "tunneling technology " is used for LAN to securely transfer the data over an intermediate network such as UUNET net IP network which is "an OC-48 TCP/IP infrastructure." Also evidently, Weldon substantiates tunneling at col. 5, line 55-col. 6, line 11 and col. 6, line 54-67.

col. 6, line 29-53, col. 5, line 5-37, col. 9, line 21-26, "While encryption may be employed to improve information privacy, encryption need not be employed and thus is an optional feature, selected by a customer when subscribing to the VPN service. The source VPN probing router 207 may also employ multi-protocol label switching that prioritizes packets through the core communication network 217." Thus Weldon teaches "encryption for tunneling through OC-48 infrastructure" that is "optical" as stated in "a."

Art Unit: 2154

and an optical switched router including an optical switch coupling a plurality of incoming optical interface to a plurality of outgoing optical interfaces using optical switching logic controlled by the logic for managing connections." by employing "multi-protocol label switching that prioritizes packets through the core communication network 217.", as stated in "b.". Keep in mind that "prioritizing packets" is related to SLA.)

, the method comprising at least one of:

authenticating a request for communication services at a user-to-network interface (UNI) of the optical switched router. the request including a service level agreement (SLA);

monitoring and analyzing the connection in real-time for determining SLA compliance using a peer-to-peer interface of the optical-switched router; (col. 9, line 21-26)

gathering and maintaining statistical information relating to a connection;
analyzing statistical information off-line for determining SLA compliance, patterns, and trends;

interacting with a service provider via the peer-to-peer interface to enforce penalty provisions in the SLA;

interacting with a service provider via the peer to peer interface to negotiate a credit for services not provided by the service provider in accordance with the SLA;

interacting with a service provider via the peer-to-peer interface to negotiate "replacement" services for a breach of the SLA;

interacting with various network elements to rectify a breach of the SLA;

Art Unit: 2154

interacting with the service provider to dynamically modify the SLA based upon changing user requirements;

controlling the optical switch of the optical router in response to the SLA; and

interfacing with a billing/accounting system to provide SLA-related information.

(col. 11, line 21-42)

Referring to claim 36,

Weldon teaches the method of claims 35. wherein monitoring and analyzing a connection in real-time for determining SLA compliance comprises at least one of:

monitoring the integrity of the connection to verify that the connection meets certain SLA criteria;

monitoring traffic on the connection to verify that the connection meets certain SLA criteria;

querying a core optical communication network in order to obtain information compiled by the core optical communication network for verifying that the connection meets certain SLA criteria; and

querying in order to obtain information compiled by the peer users for verifying that the connection meets certain SLA criteria. (col. 11, line 21-42)

Referring to claim 37,

Weldon teaches the method of claim 35, wherein interacting with various network elements to rectify a breach of the SLA comprises at least one of:

re-requesting the connection; and notifying a service provider of the SLA breach (col. 4, line 15-32, col. 8, line 62-col. 9, line 6); and orchestrating various network changes to resolve or work around the SLA breach.

Referring to claim 38,

Weldon teaches the method of claim 35, wherein interacting with the service provider to dynamically modify the SLA based upon changing user requirements comprises:

determining changing requirements of the user; and
dynamically re-negotiating the SLA to meet the changing requirements of the user. (col. 6, line 29-53)

Additional Reference of Concern to Examiner

Examiner would like to request the applicant to refer to Lo et al. (US2002/015914 A1). (Provisional Application Copy is provided herewith.)

Reference to Figs. 1-3, please note the explicit definition of "Node" provided in para. [0024] and shown in Fig. 6, elements A-E. The "Node", such as "X", as shown in Fig. 2, employs "router, Optical switch and controller", and as stated in para. [0032] As indicated above, functions of the controllers 10 can be divided into two categories, namely intra-layer functions and inter-layer functions. Regarding inter-layer functionality, the controllers 10 provide a network with intelligent dynamic resource management between a service node (i.e. a node of the layer-3 network) and a facility node (i.e. a node of the layer-1 network). Regarding the intra-layer functionality of the controllers 10, at the service node layer, each of the controllers 10 has information

Art Unit: 2154

pertaining to the service level agreements (SLAs), by way of the policy information, and manages resources at this layer to meet the SLAs.

Conclusion

Examiner's note: Examiner has cited particular columns and line numbers in the references as applied to the claims above for the convenience of the applicant. Although the specified citations are representative of the teachings of the art and are applied to the specific limitations within the individual claim, other passages and figures may apply as well. It is respectfully requested from the applicant in preparing responses, to fully consider the references in entirety as potentially teaching all or part of the claimed invention, as well as the context of the passage as taught by the prior art or disclosed by the Examiner.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Art Unit: 2154

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ashok B. Patel whose telephone number is (571) 272-3972. The examiner can normally be reached on 6:30 am-4:30 pm.

NATHAN J. FLYNN
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan A. Flynn can be reached on (571) 272-1915. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Abp
